

GUIDELINES FOR PREPARATION OF ABSTRACTS

Guidelines:

- Abstracts should be prepared in Word using Times New Roman 12 point font
- Select A4 page size with a 2.5 cm margin all around.
- The title should be typed in **BOLD CAPITALS**, centred.
- Authors' names should be in lower case, centred, after leaving a gap of one line.
- Underline the name of the presenting author.
- Authors' affiliations and addresses should appear after a one-line space in lower case, aligned to the left, with multiple affiliations indicated by superscripted numbers.
- Leave a double space and proceed with the abstract, using single spacing.

Sample Abstract:

A MOLECULAR BASIS FOR CHANGES IN DOUGH PROPERTIES DUE TO HIGH TEMPERATURES DURING GRAIN FILLING

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High temperatures during grain filling have been identified as a major concern to the wheat industry as a result of both yield loss and quality fluctuations. Temperatures above 30°C during grain filling have been found to have a dough-weakening effect. The basis for a molecular explanation of this effect is the identification of "heat-shock elements" in certain of the gliadin genes. Heat-shock elements are conserved nucleotide sequences, which confer heat-inducibility on specific genes. This implies that the influence of high temperature on dough quality is due to a relative increase in synthesis of glutenin. Further evidence for the heat-inducibility of some gliadin genes was obtained from head-culture experiments where preferential incorporation of radio-labelled amino acids into gliadin occurred under heat-shock conditions. Analysis of glass-house and field-grown grain, which was heat shocked during grain filling, also showed an increased gliadin content. These results support the hypothesis that a heat shock during grain filling produces grain with weaker gluten due to a higher proportion of gliadin, synthesised under the influence of heat-shock elements associated with certain gliadin genes.